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SEQUENCE LISTING

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Cornut, Isabelle
Metz, Gunther

<120> Apolipoprotein A-I agonists and their use to treat dyslipidemic disorders

<130> 9196-0032-999

<140> US 10/801,897

<141> 2004-03-15

<150> US 09/865,989

<151> 2001-05-25

<150> US 09/465,719

<151> 1999-12-17

<150> US 08/940,093

<151> 1997-09-29

<160> 258

<170> PatentIn version 3.3

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Leu Lys Gln Lys Leu Lys
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Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys Lys

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Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys

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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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 Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Trp Lys Gln Lys Leu Lys
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Leu Lys Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys

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Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Glu Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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 Leu Lys Gln Lys Leu Lys
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 Leu Lys Gln Lys Leu Lys
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 Lys Leu Lys

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 Leu Lys Gln Lys Leu Lys
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 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln

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1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Lys Gln Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Lys Gln Lys Leu Lys
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 1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<222> (13)..(13)

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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<220>

<223> Synthetic Peptide

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<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa = Aib

<400> 72

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Trp Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 73

<211> 22

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<222> (13)..(13)

<223> Xaa = Aib

<400> 73

Pro Val Leu Asp Glu Phe Trp Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 74

<211> 22

<212> PRT

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<222> (13)..(13)

<223> Xaa = Aib

<400> 74

Pro Val Leu Asp Lys Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 75

<211> 22

<212> PRT

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<223> Synthetic Peptide

<400> 75

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 76

<211> 22

<212> PRT

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<223> Synthetic Peptide

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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 76
 Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Phe Glu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 77
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<220>
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 77
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Lys Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 78
 <211> 22
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 78
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 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 79
 <211> 22
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 Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 80
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<400> 80
 Pro Val Leu Asp Leu Phe Glu Arg Leu Leu Asn Glu Leu Leu Glu Ala
 1 5 10 15

Leu Gln Lys Lys Leu Lys
 20

<210> 81
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 <223> Xaa = Aib

<400> 81
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Trp Xaa Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 82
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 <223> Xaa = Aib

<400> 82
 Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys
 Page 25

1 5 15

Gln Lys Leu Lys
20

<210> 83
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<400> 83
Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Trp Gln Lys Leu Lys
20

<210> 84
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<400> 84
Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 85
<211> 21
<212> PRT
<213> Artificial Sequence

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<223> Synthetic Peptide

<400> 85
Pro Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu
1 5 10 15

Lys Gln Lys Leu Lys
20

<210> 86
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 86

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Asp Glu Leu Leu Asn Ala
 1 5 10 15

Leu Gln Lys Lys Leu Lys
 20

<210> 87

<211> 22

<212> PRT

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<220>

<221> MISC_FEATURE

<222> (1)..(22)

<223> All amino acids are in the D-configuration

<400> 87

Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 88

<211> 22

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<222> (13)..(13)

<223> Xaa = Aib

<400> 88

Pro Val Leu Asp Lys Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 89

<211> 22

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<222> (13)..(13)

<223> Xaa = Aib

<400> 89

Pro Val	Leu Asp	Glu Phe	Arg Glu	Lys Leu	Asn Glu	Xaa Leu	Trp Ala
1		5		10		15	

Leu Lys	Gln Lys	Leu Lys
	20	

<210> 90

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = Aib

<400> 90

Asp Glu	Phe Arg	Glu Lys	Leu Asn	Glu Xaa	Leu Glu	Ala Leu	Lys Gln
1		5		10		15	

Lys Leu	Lys
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<210> 91

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa = Aib

<400> 91

Pro Val	Leu Asp	Glu Phe	Arg Glu	Leu Leu	Asn Glu	Xaa Leu	Glu Ala
1		5		10		15	

Leu Lys	Gln Lys	Leu Lys
	20	

<210> 92

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

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 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> Xaa = Aib

<400> 92
 Pro Val Leu Asp Glu Phe Arg Glu Leu Tyr Asn Glu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 93
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

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 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> Xaa = Aib

<400> 93
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Lys Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 94
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 94
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Ala Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 95
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 <212> PRT
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 95
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 96
 <211> 22
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 <222> (1)..(22)
 <223> All genetically encoded amino acids are in the D-configuration
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 96
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 97
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
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<400> 97
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu
 1 5 10 15

<210> 98
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 98
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 99
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 99
 Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg
 1 5 10 15
 Phe Leu Asp Leu Val Pro
 20

<210> 100
 <211> 22
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 <222> (1)..(22)
 <223> All amino acids are in the D-configuration

<400> 100
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 101
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 101
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Trp Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 102
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 <222> (13)..(13)
 <223> Xaa = Aib

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 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Glu Lys Leu Lys
 20

<210> 103
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 103
 Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 104
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 104
 Pro Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys
 1 5 10 15

<210> 105
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 105
 Pro Ala Ala Asp Ala Phe Arg Glu Ala Ala Asn Glu Ala Ala Glu Ala
 1 5 10 15
 Ala Lys Gln Lys Ala Lys
 20

<210> 106
 <211> 22

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 106
 Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 107
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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<220>
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 <222> (1)..(22)
 <223> All amino acids are in the D-configuration

<400> 107
 Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg
 1 5 10 15
 Phe Leu Asp Leu Val Pro
 20

<210> 108
 <211> 22
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 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> Xaa = Aib

<400> 108
 Pro Val Leu Asp Leu Phe Arg Trp Leu Leu Asn Glu Xaa Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 109
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 109
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Arg Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 110
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 <212> PRT
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 <223> Xaa = Aib

<220>
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 <222> (14)..(14)
 <223> Xaa = Aib

<400> 110
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 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 111
 <211> 22
 <212> PRT
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<220>
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 111
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Trp Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 112
 <211> 22
 <212> PRT
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<220>
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<220>
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 112
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Ser Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 113
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 113
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Pro Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 114
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 <222> (13)..(13)
 <223> Xaa = Aib

<400> 114
 Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Met Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 115
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 <212> PRT
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 <222> (13)..(13)

<223> Xaa = Aib

<400> 115

Pro Lys Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 116

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa = Aib

<400> 116

Pro His Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 117

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa = Aib

<400> 117

Pro Glu Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 118

<211> 22

<212> PRT

<213> Artificial Sequence

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<222> (13)..(13)

<223> Xaa = Aib

<400> 118

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Glu Gln Lys Leu Lys
20

<210> 119

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

<221> MISC_FEATURE

<222> (17)..(17)

<223> Xaa = Aib

<400> 119

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Xaa Lys Gln Lys Leu Lys
20

<210> 120

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

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<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa = Aib

<400> 120

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Xaa
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 121

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 121

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
Page 37

1 5 15

Leu Trp Gln Lys Leu Lys
20

<210> 122
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 122
Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Trp
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 123
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 123
Gln Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 124
<211> 22
<212> PRT
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<220>
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<222> (7)..(7)
<223> Xaa = Orn

<220>
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<222> (18)..(18)
<223> Xaa = Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa = Orn

<220>
<221> MISC_FEATURE

<222> (22)..(22)

<223> Xaa = Orn

<400> 124

Pro Val	Leu Asp	Leu Phe	Xaa Glu	Leu Leu	Leu Asn	Glu Leu	Leu Glu	Ala
1		5		10			15	

Leu Xaa	Gln Xaa	Leu Xaa
	20	

<210> 125

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 125

Asn Val	Leu Asp	Leu Phe	Arg Glu	Leu Leu	Leu Asn	Glu Leu	Leu Glu	Ala
1		5		10			15	

Leu Lys	Gln Lys	Leu Lys
	20	

<210> 126

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 126

Pro Val	Leu Asp	Leu Phe	Arg Glu	Leu Leu	Leu Asn	Glu Leu	Gly Glu	Ala
1		5		10			15	

Leu Lys	Gln Lys	Leu Lys
	20	

<210> 127

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 127

Pro Val	Leu Asp	Leu Phe	Arg Glu	Leu Leu	Leu Asn	Glu Leu	Leu Glu	Leu
1		5		10			15	

Leu Lys	Gln Lys	Leu Lys
	20	

<210> 128

<211> 22

<212> PRT

<213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 128
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Phe
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 129
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 129
 Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
 1 5 10 15
 Leu Gln Lys Lys Leu Lys
 20

<210> 130
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 130
 Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 131
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 131
 Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Asp Ala
 1 5 10 15
 Leu Arg Gln Lys Leu Lys
 20

<210> 132
 <211> 22

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 132
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Asn Leu Leu Glu Ala
 1 5 10 15
 Leu Gln Lys Lys Leu Lys
 20

<210> 133
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 133
 Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Gln Ala
 1 5 10 15
 Leu Asn Lys Lys Leu Lys
 20

<210> 134
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 134
 Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Lys Ala
 1 5 10 15
 Leu Asn Gln Lys Leu Lys
 20

<210> 135
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 135
 Asp Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 136

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 136
 Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Gln Glu Leu Leu Glu Ala
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 137
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<220>
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 <222> (17)..(17)
 <223> Xaa = Naphthylalanine

<400> 137
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
 1 5 10 15
 Xaa Lys Gln Lys Leu Lys
 20

<210> 138
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 138
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Trp
 1 5 10 15
 Leu Lys Gln Lys Leu Lys
 20

<210> 139
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 139
 Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Asn Glu Gly Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 140
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (18)..(18)
<223> Xaa = Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa = Orn

<220>
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<222> (22)..(22)
<223> Xaa = Orn

<400> 140
Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Xaa Gln Xaa Leu Xaa
20

<210> 141
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 141
Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 142
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 142
Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys

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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Arg
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Arg
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Arg
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Leu Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Leu Arg

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Leu Lys

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1 5 15

Leu Lys

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1 5 15

Leu Lys

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Leu Lys

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Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Phe Arg Gln Arg
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1 5 15

Leu Lys

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Trp Lys Gln Lys
1 5 10 15

Leu Lys

<210> 216
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 216

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
 1 5 10 15

Leu Lys

<210> 217
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 217
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Leu Leu Lys Gln Lys
 1 5 10 15

Leu Lys

<210> 218
 <211> 18
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<220>
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<220>
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 <223> N-terminal acetylated and C-terminal amidated

<400> 218
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 1 5 10 15

Leu Lys

<210> 219
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 219
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Gln Lys
 1 5 10 15

Leu Lys

<210> 220
 <211> 18
 <212> PRT

<213> Artificial Sequence

<220>

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<400> 220

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Gln Lys Lys
1 5 10 15

Leu Lys

<210> 221

<211> 18

<212> PRT

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<220>

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<222> (1)..(18)

<223> N-terminal acetylated and C-terminal amidated

<400> 221

Asp Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 222

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 222

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Leu Gln Leu
1 5 10 15

Lys Lys

<210> 223

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 223

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Ala Gln Leu
1 5 10 15

Lys Lys

<210> 224
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<220>
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<400> 224
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 1 5 10 15

Leu Lys

<210> 225
 <211> 18
 <212> PRT
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<220>
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<400> 225
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 1 5 10 15

Lys Lys

<210> 226
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 226
 Pro Val Leu Asp Ala Phe Arg Glu Leu Gly Glu Ala Leu Leu Gln Leu
 1 5 10 15

Lys Lys

<210> 227
 <211> 18
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<220>
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 <223> N-terminal acetylated and C-terminal amidated

<400> 227
 Pro Val Leu Asp Leu Phe Arg Glu Leu Gly Glu Glu Leu Lys Gln Lys
 1 5 10 15

Leu Lys

<210> 228
 <211> 18
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<220>
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 <223> N-terminal acetylated and C-terminal amidated

<400> 228
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 1 5 10 15

Leu Lys

<210> 229
 <211> 18
 <212> PRT
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<220>
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 <223> N-terminal acetylated and C-terminal amidated

<400> 229
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 1 5 10 15

Leu Lys

<210> 230
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 230
 Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Gln Lys Lys
 1 5 10 15

Leu Lys

<210> 231
 <211> 18
 <212> PRT
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<220>
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<400> 231
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Glu Gln Lys
 1 5 10 15

Leu Lys

<210> 232
 <211> 18
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<220>
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<220>
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 <222> (1)..(18)
 <223> N-terminal acetylated and C-terminal amidated

<400> 232
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 1 5 10 15

Leu Lys

<210> 233

<400> 233
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<210> 237
 <211> 18

<212> PRT
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<220>
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<400> 237
 Leu Asp Asp Leu Leu Gln Lys Trp Ala Glu Ala Phe Asn Gln Leu Leu
 1 5 10 15
 Lys Lys

<210> 238
 <211> 18
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<220>
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<220>
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 <222> (1)..(18)
 <223> N-terminal acetylated and C-terminal amidated

<400> 238
 Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu
 1 5 10 15
 Leu Phe

<210> 239
 <211> 18
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 <223> N-terminal acetylated and C-terminal amidated

<400> 239
 Glu Trp Leu Glu Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu
 1 5 10 15
 Leu Phe

<210> 240
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 <223> N-terminal acetylated and C-terminal amidated

<400> 240
 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
 1 5 10 15

Ala Phe

<210> 241
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 241
 Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu
 1 5 10 15

Phe Phe

<210> 242
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 242
 Gly Ile Lys Lys Phe Leu Gly Ser Ile Trp Lys Phe Ile Lys Ala Phe
 1 5 10 15

Val Gly

<210> 243
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 243
 Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu
 1 5 10 15

Ala Phe

<210> 244

<211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 244
 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
 1 5 10 15

Ala Phe

<210> 245
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Peptide

<400> 245
 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu
 1 5 10 15

Phe Phe

<210> 246
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 246
 Glu Trp Leu Glu Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu
 1 5 10 15

Leu Phe

<210> 247
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 247
 Asp Trp Phe Lys Ala Phe Tyr Asp Lys Phe Phe Glu Lys Phe Lys Glu
 1 5 10 15

Phe Phe

<210> 248
 <211> 18
 <212> PRT
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<220>
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<400> 248
 Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu
 1 5 10 15

Leu Phe

<210> 249
 <211> 18
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 <222> (1)..(18)
 <223> N-terminal acetylated and C-terminal amidated

<400> 249
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 1 5 10 15

Leu Phe

<210> 250
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 <223> N-terminal acetylated and C-terminal amidated

<400> 250
 Glu Trp Leu Lys Ala Glu Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu
 1 5 10 15

Leu Phe

<210> 251
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<220>
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<220>
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 <222> (1)..(18)
 <223> N-terminal acetylated and C-terminal amidated

<400> 251
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 1 5 10 15

Leu Phe

<210> 252
 <211> 15
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<220>
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<220>
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 <222> (1)..(15)
 <223> N-terminal acetylated and C-terminal amidated

<400> 252
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Gln Lys Leu Lys
 1 5 10 15

<210> 253
 <211> 16
 <212> PRT
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<220>
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<220>
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 <222> (1)..(16)
 <223> N-terminal acetylated and C-terminal amidated

<400> 253
 Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
 1 5 10 15

<210> 254
 <211> 16
 <212> PRT
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<220>
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<220>
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 <222> (1)..(16)

<223> N-terminal acetylated and C-terminal amidated

<400> 254

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Lys Gln Lys
1 5 10 15

<210> 255

<211> 15

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<220>

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<220>

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<222> (1)..(15)

<223> N-terminal acetylated and C-terminal amidated

<400> 255

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Gln Lys
1 5 10 15

<210> 256

<211> 16

<212> PRT

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<220>

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<220>

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<222> (1)..(16)

<223> N-terminal acetylated and C-terminal amidated

<400> 256

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Ala Leu Lys Gln Lys
1 5 10 15

<210> 257

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<220>

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<222> (1)..(16)

<223> N-terminal acetylated and C-terminal amidated

<400> 257

Pro Val Leu Asp Leu Phe Glu Asn Leu Leu Glu Arg Leu Lys Gln Lys
1 5 10 15

<210> 258

<211> 16

<212> PRT
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<220>
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<222> (1)..(16)
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<400> 258

Pro	Val	Leu	Asp	Leu	Phe	Arg	Glu	Leu	Leu	Asn	Glu	Leu	Lys	Gln	Lys
1				5					10					15	